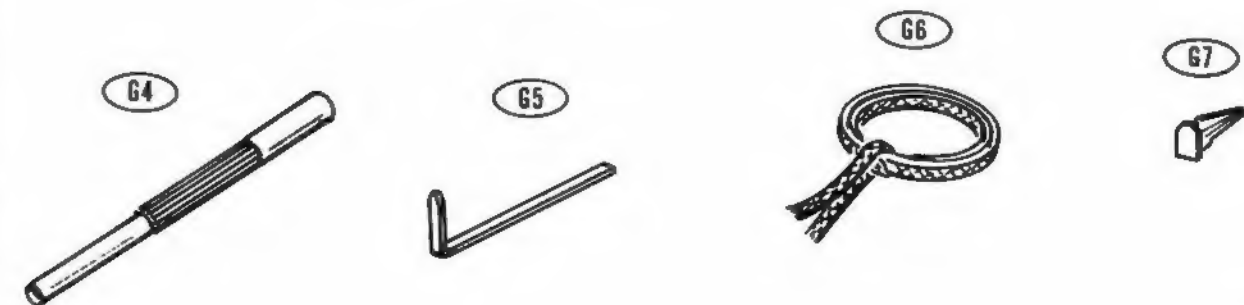
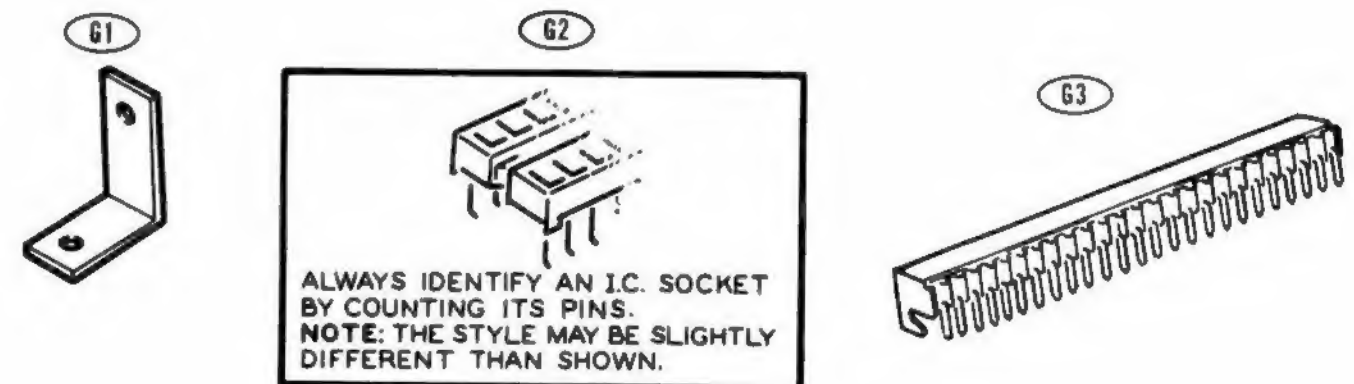
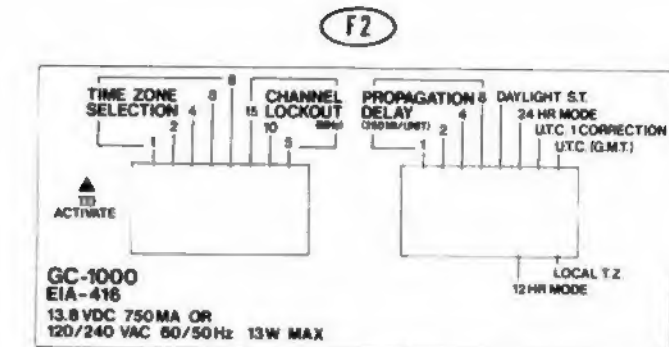
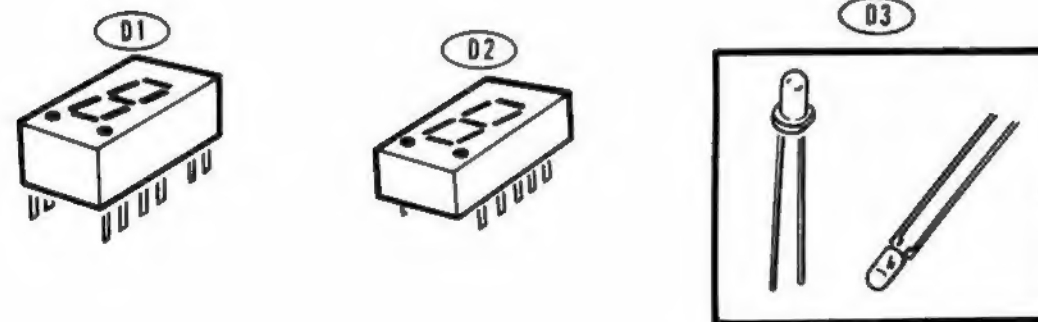
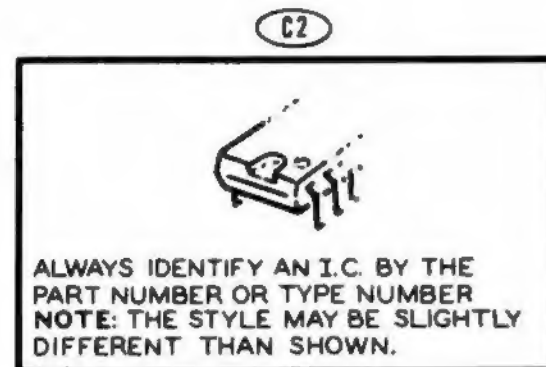
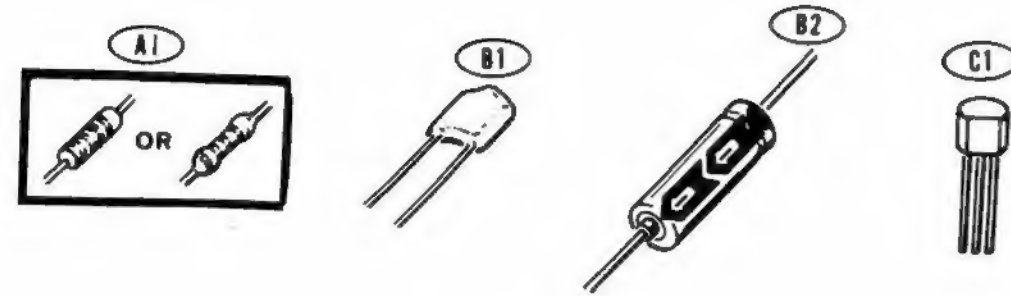


ILLUSTRATION BOOKLET

Part of 595-4016-02

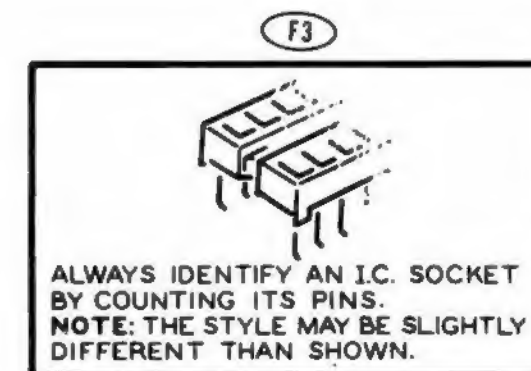
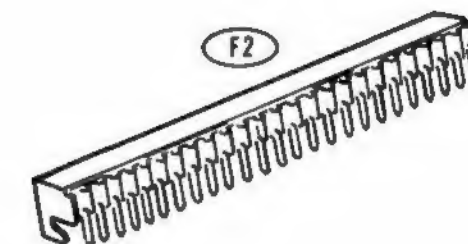
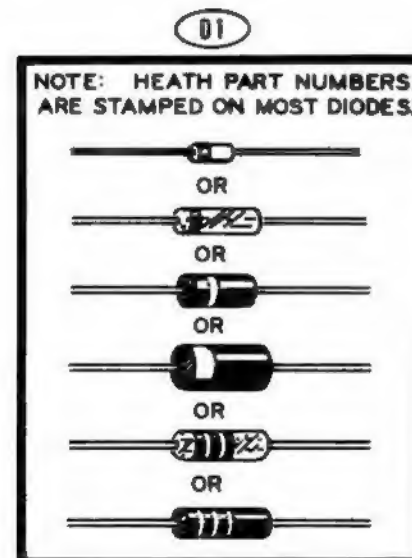
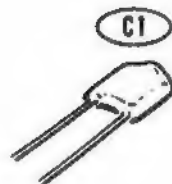
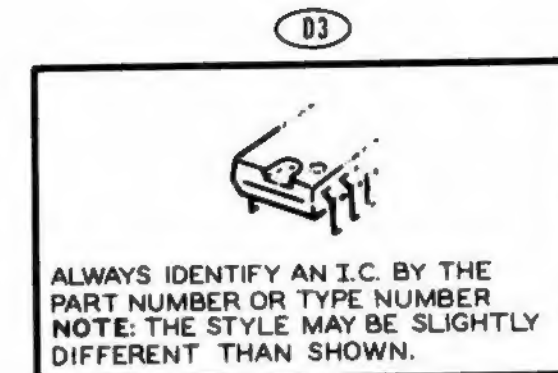
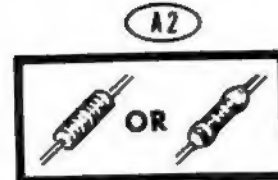
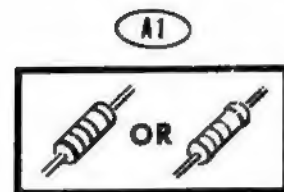
Display Circuit Board Parts Pictorial



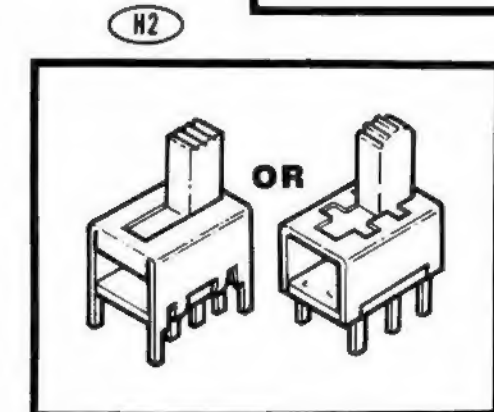
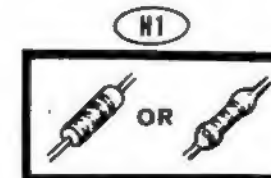
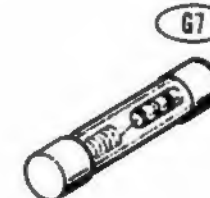
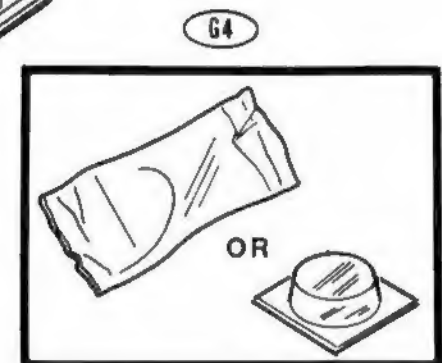
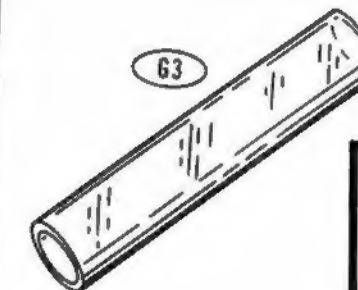
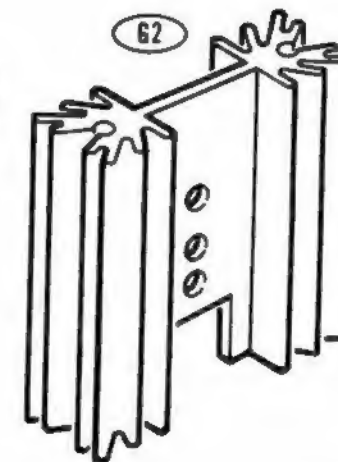
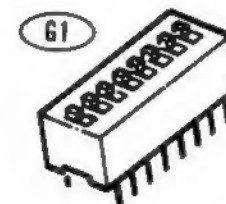
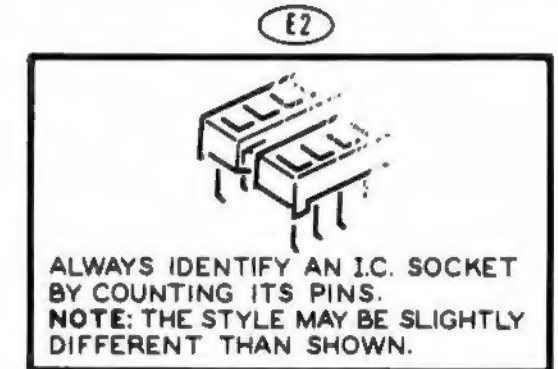
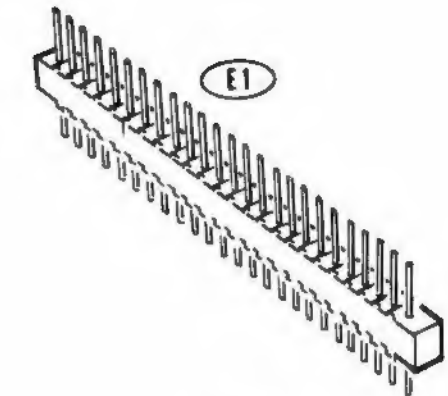
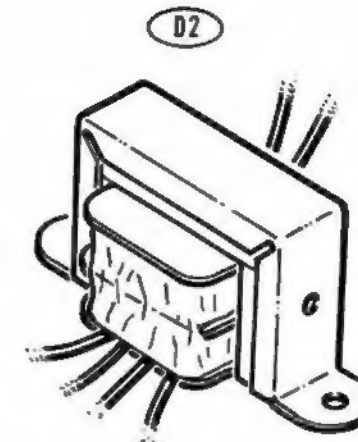
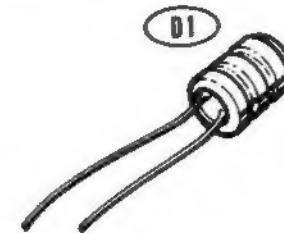
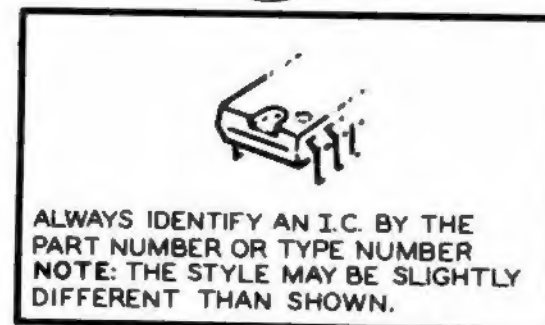
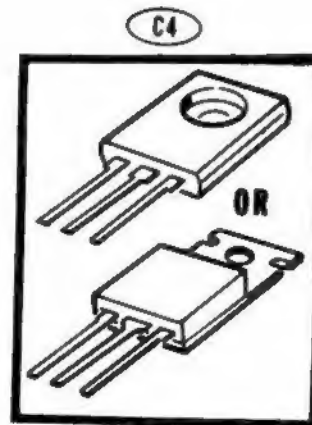
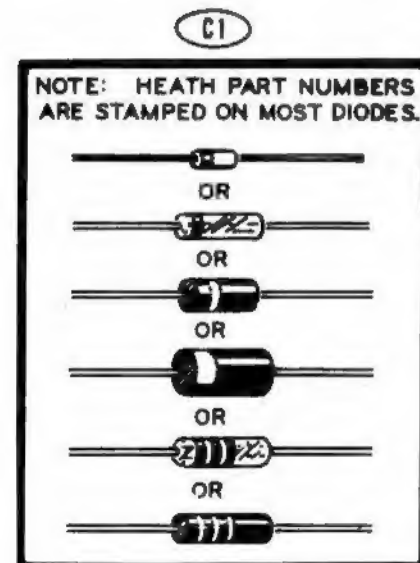
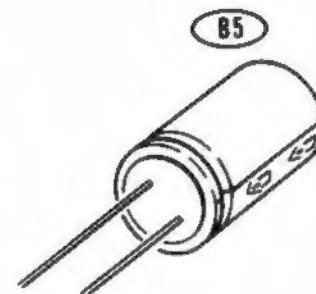
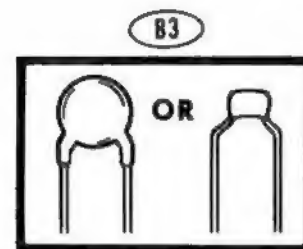
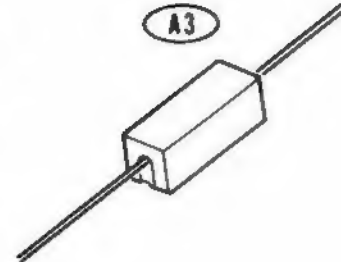
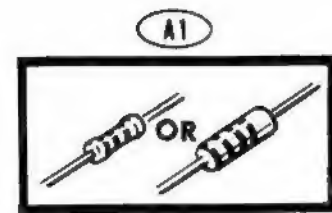
Model GC-1000-H

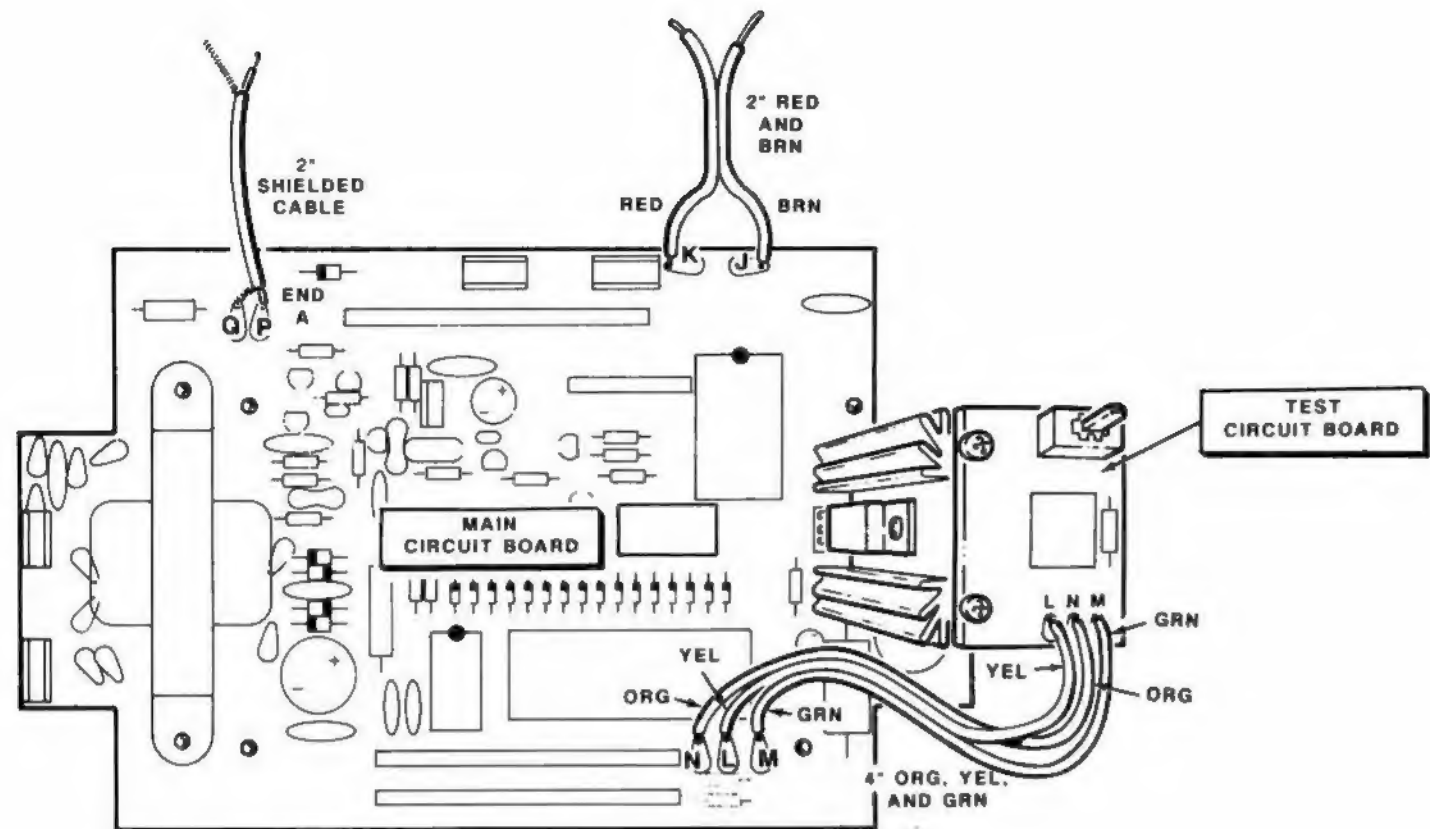
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Tone Decoder Circuit Board Parts Pictorial

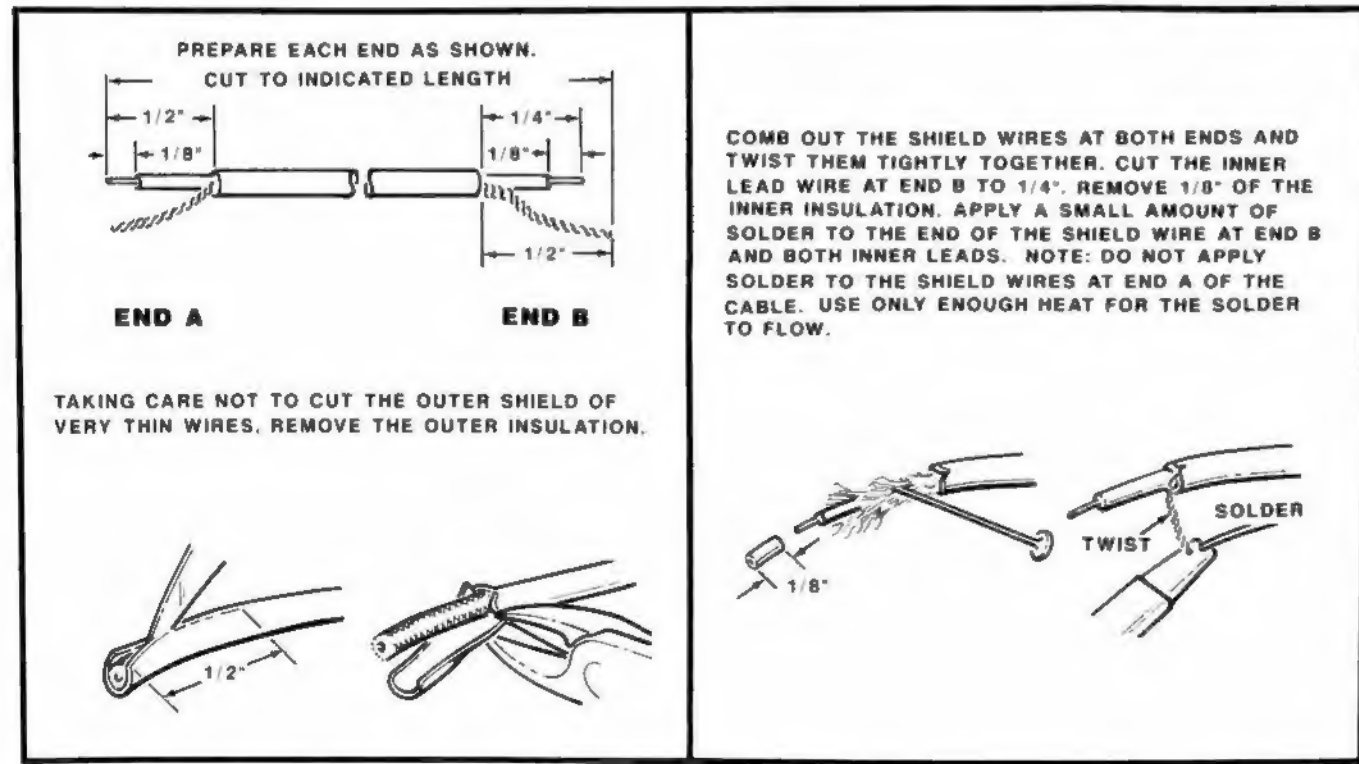


Main and Test Circuit Boards Parts Pictorial



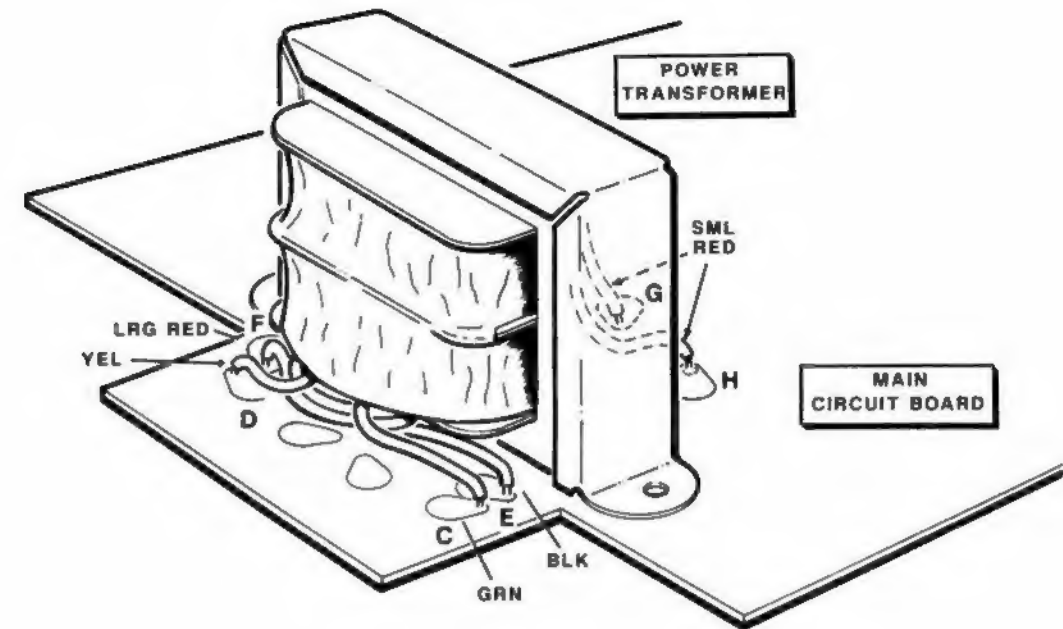


PICTORIAL 3-14

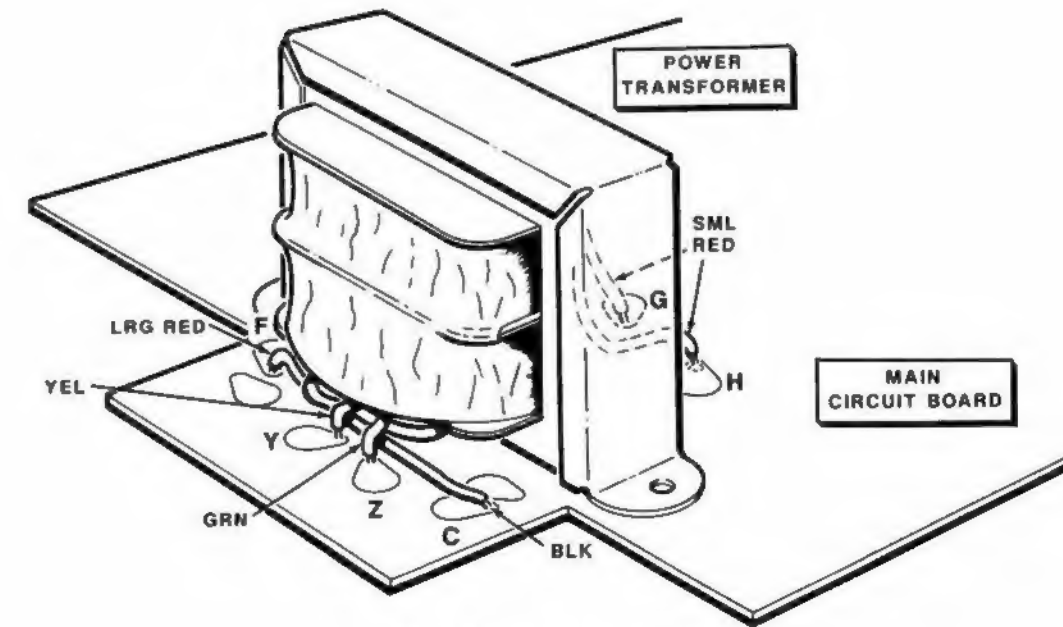


Detail 3-14B

PART A 120 VAC WIRING

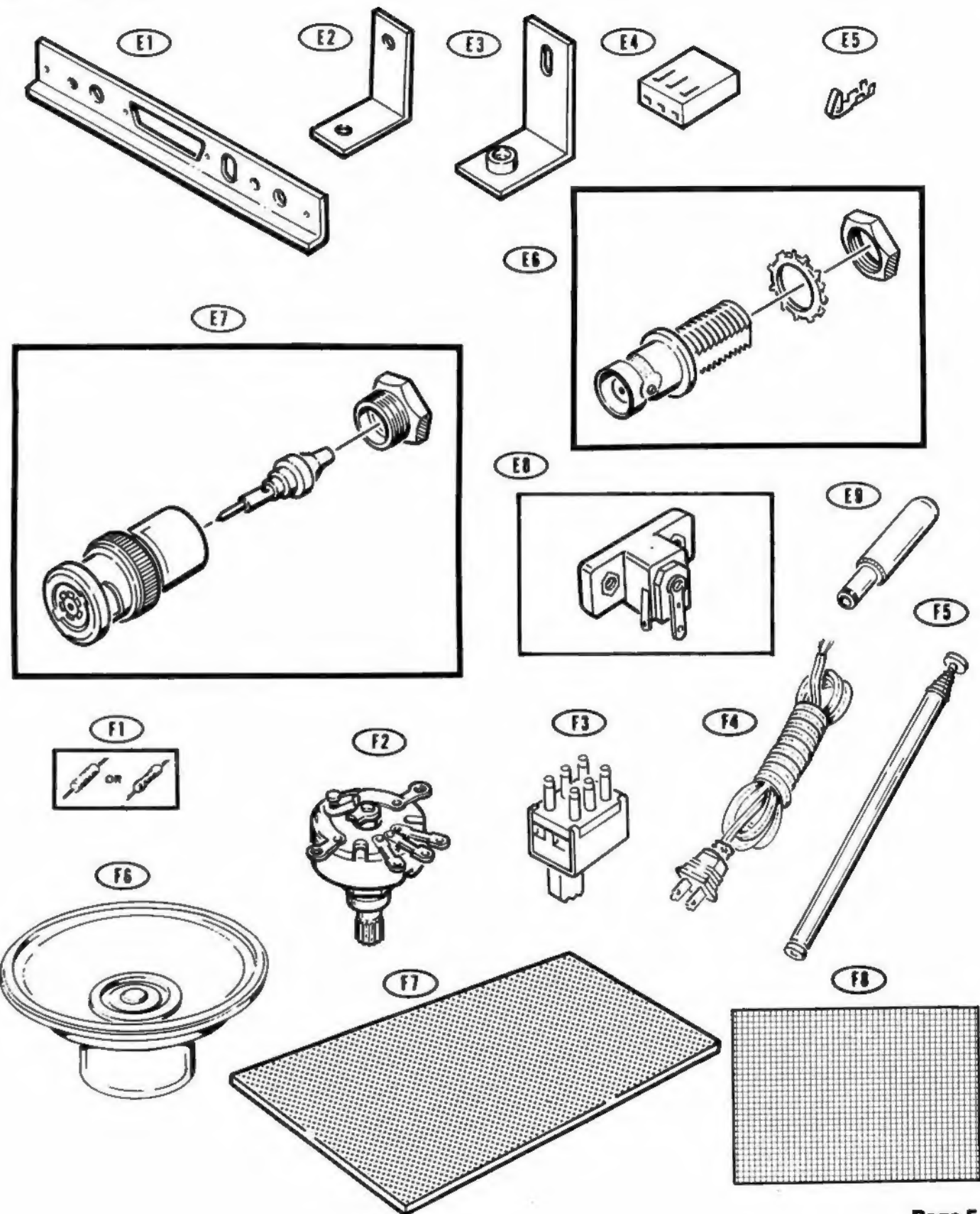
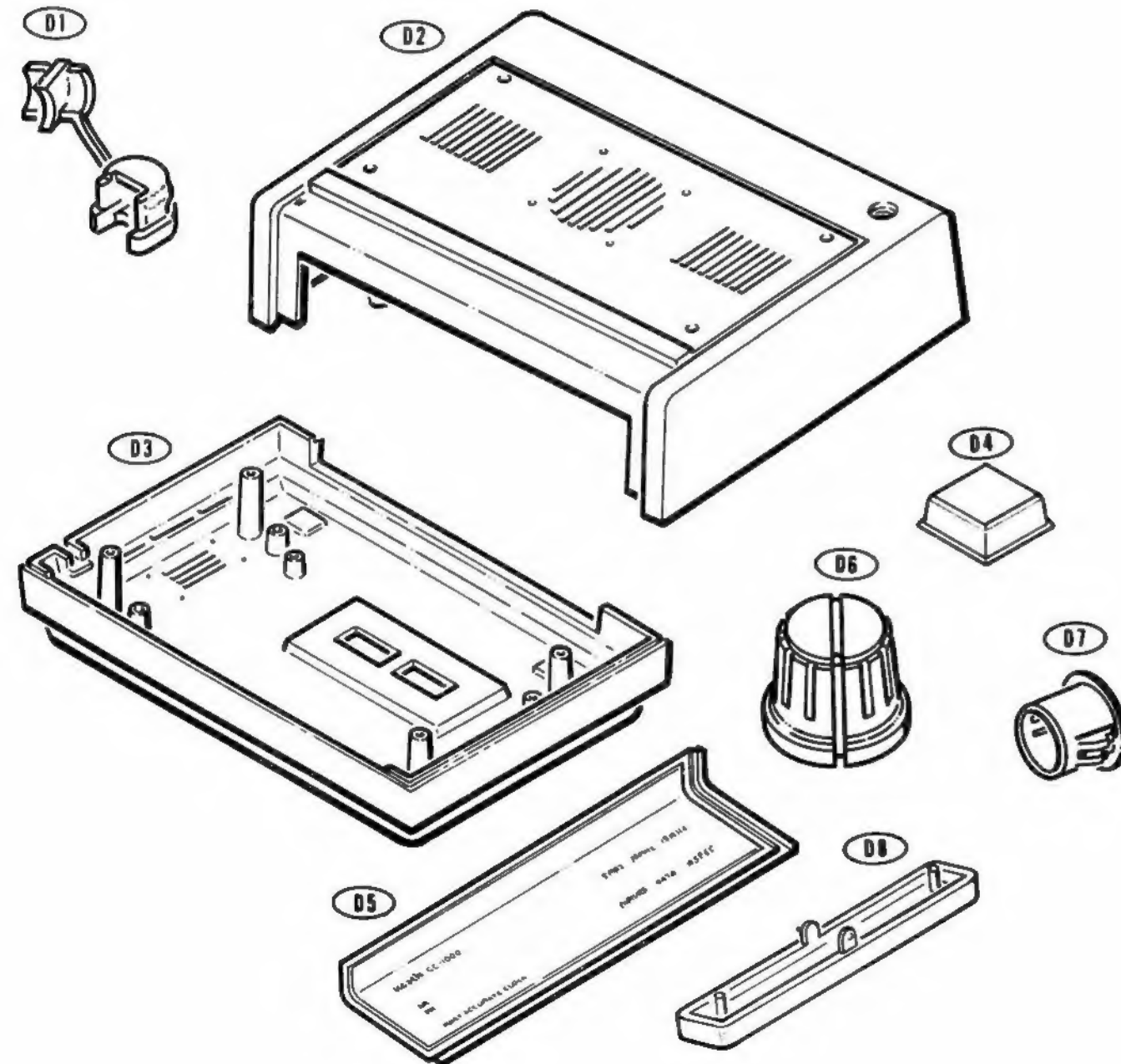
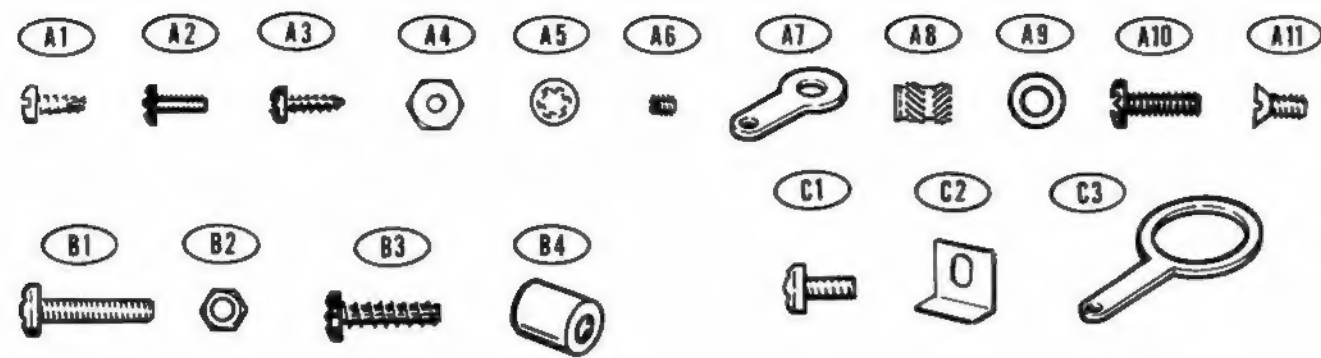


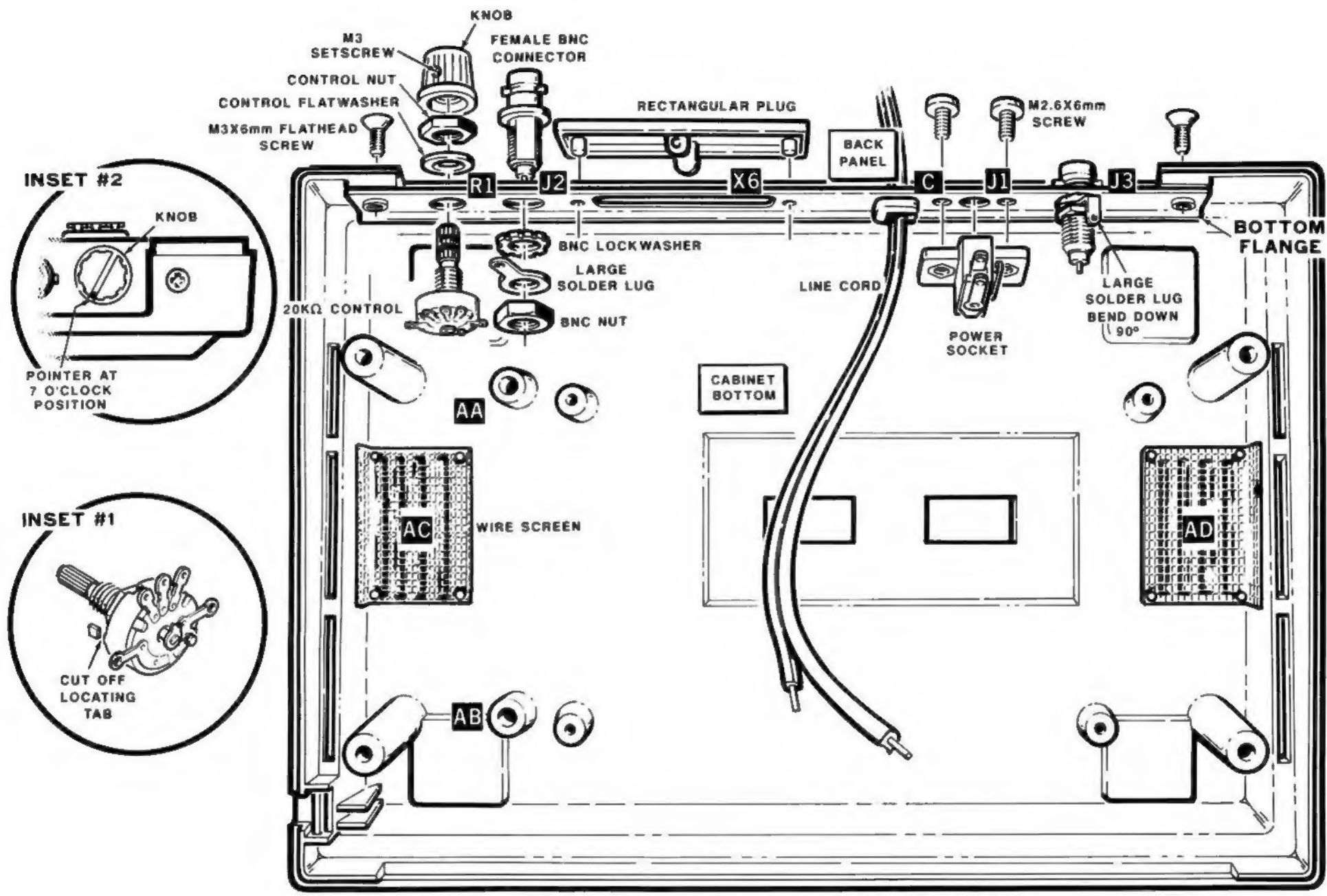
PART B 240 VAC WIRING



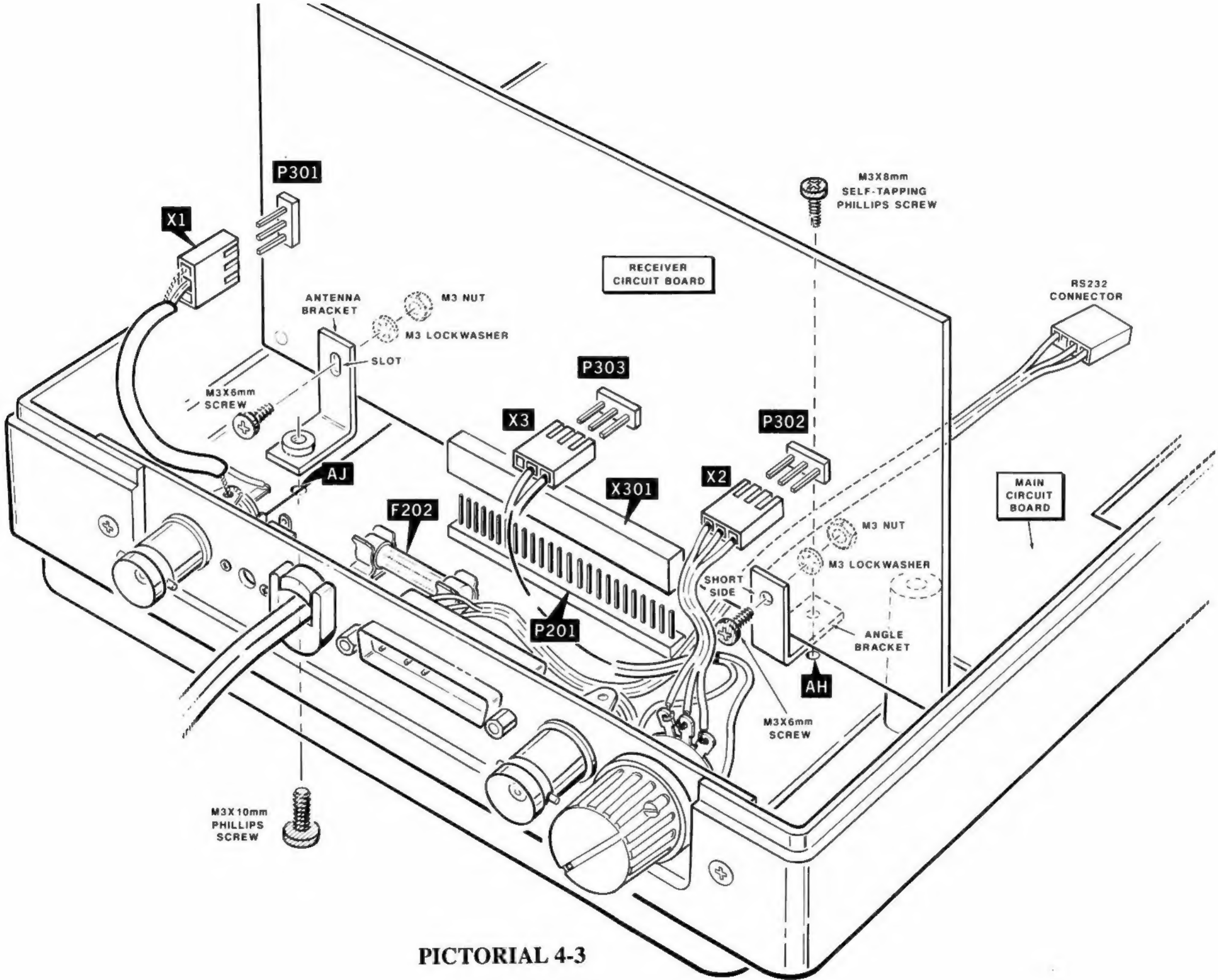
PICTORIAL 3-15

Cabinet Parts Pictorial

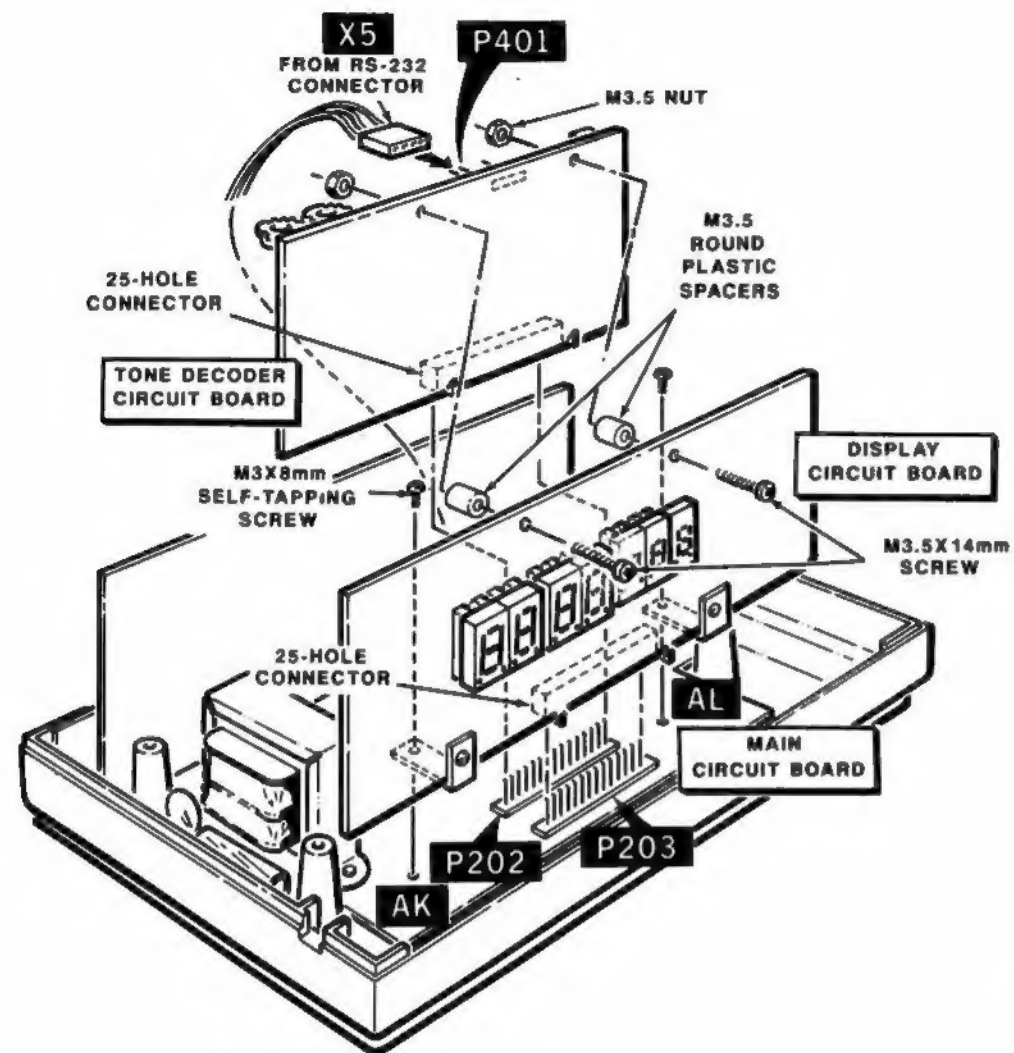




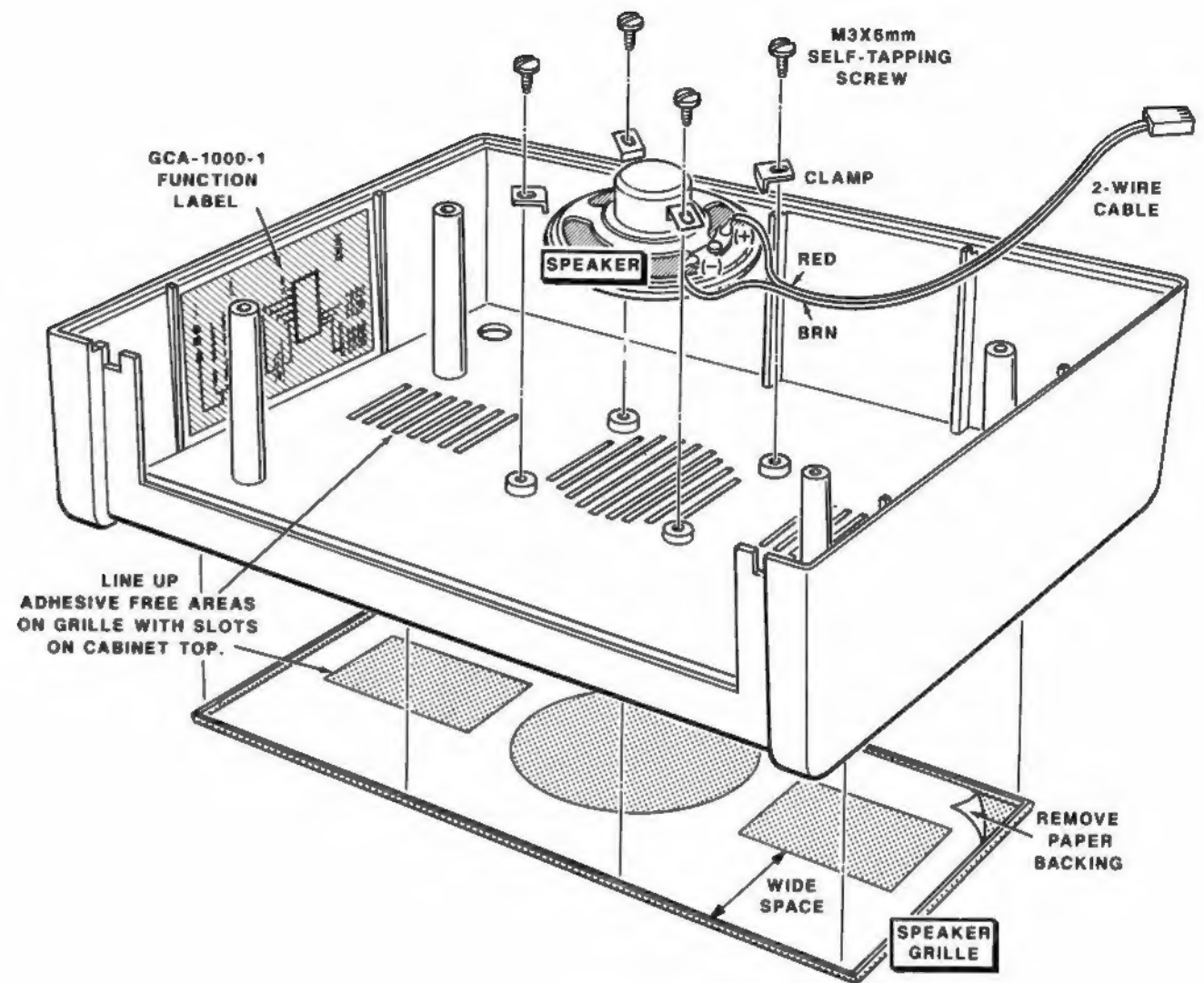
PICTORIAL 4-1



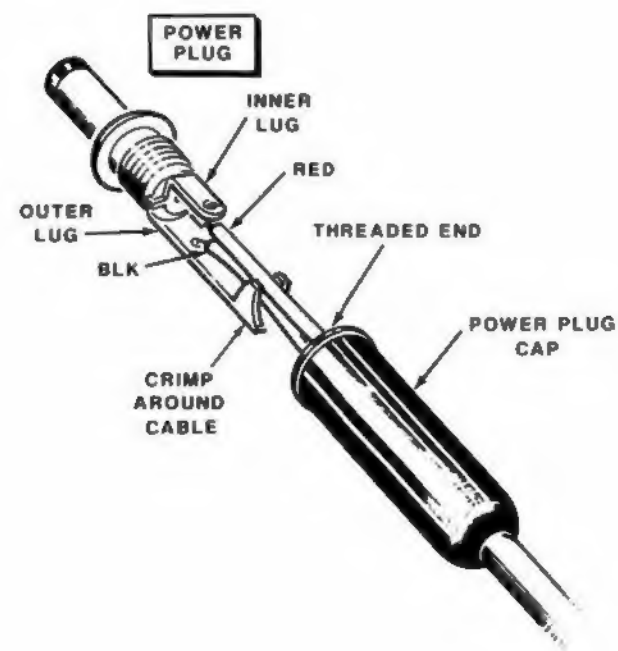
PICTORIAL 4-3



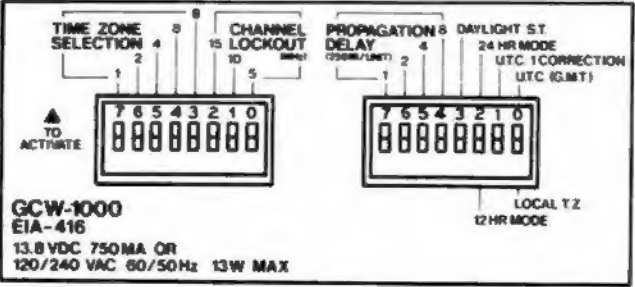
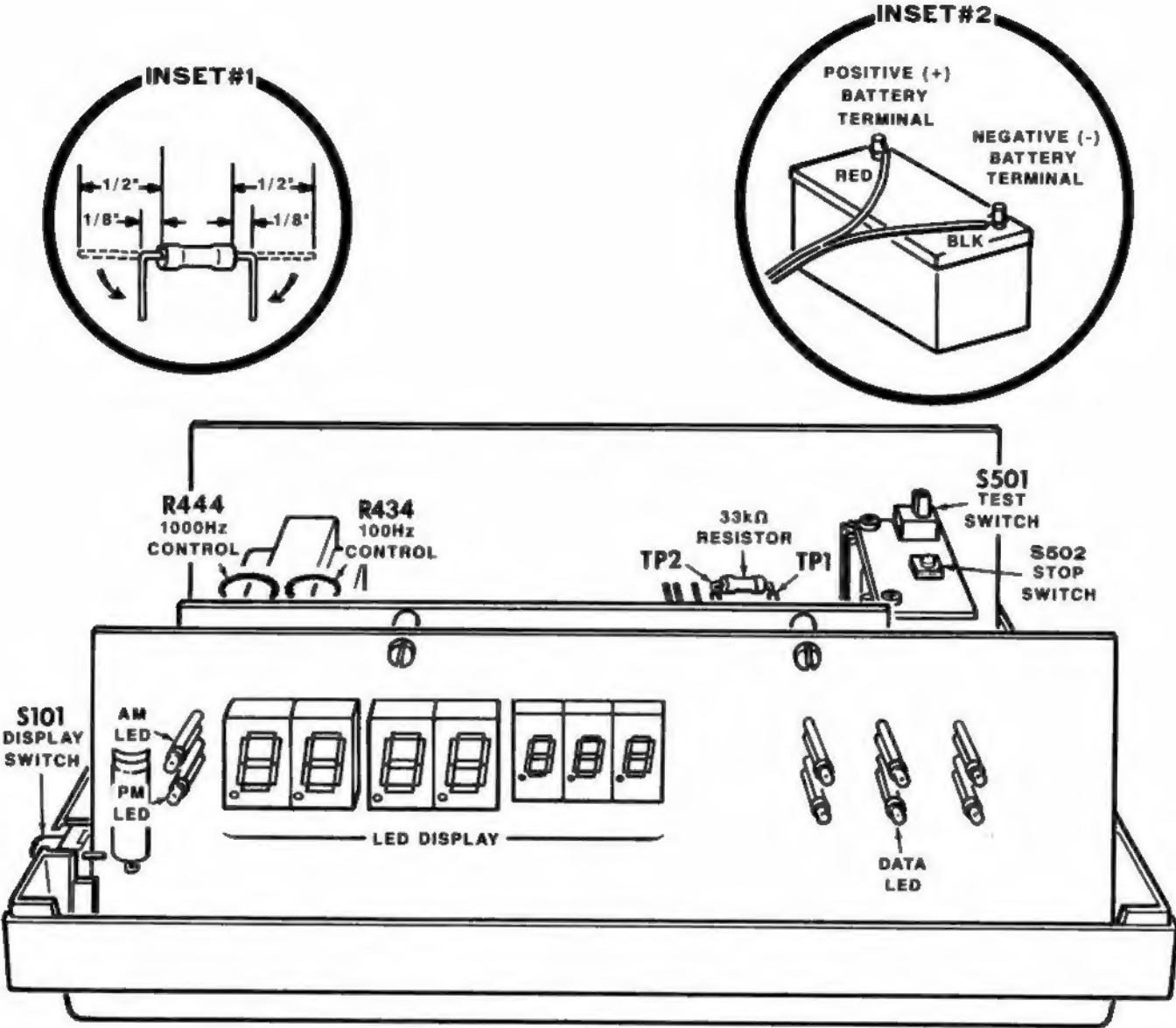
PICTORIAL 4-4



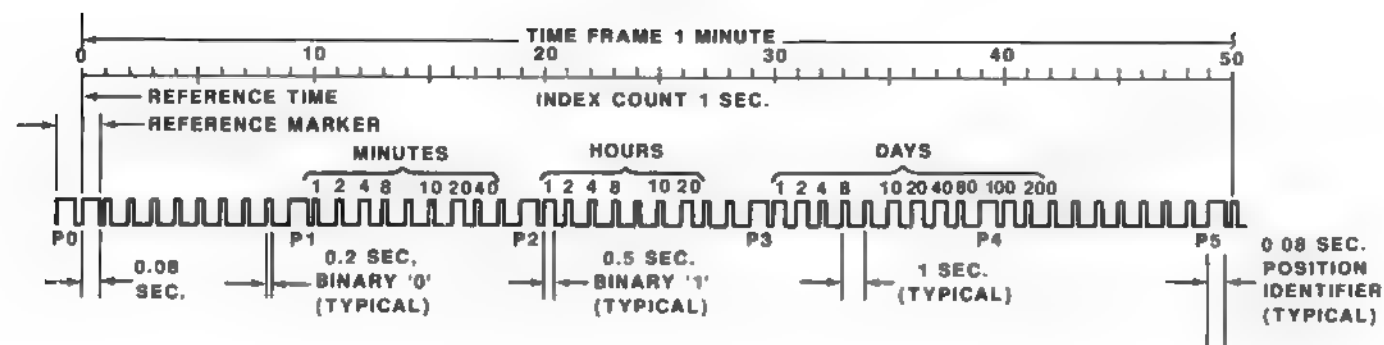
PICTORIAL 4-6



PICTORIAL 4-7



PICTORIAL 5-1

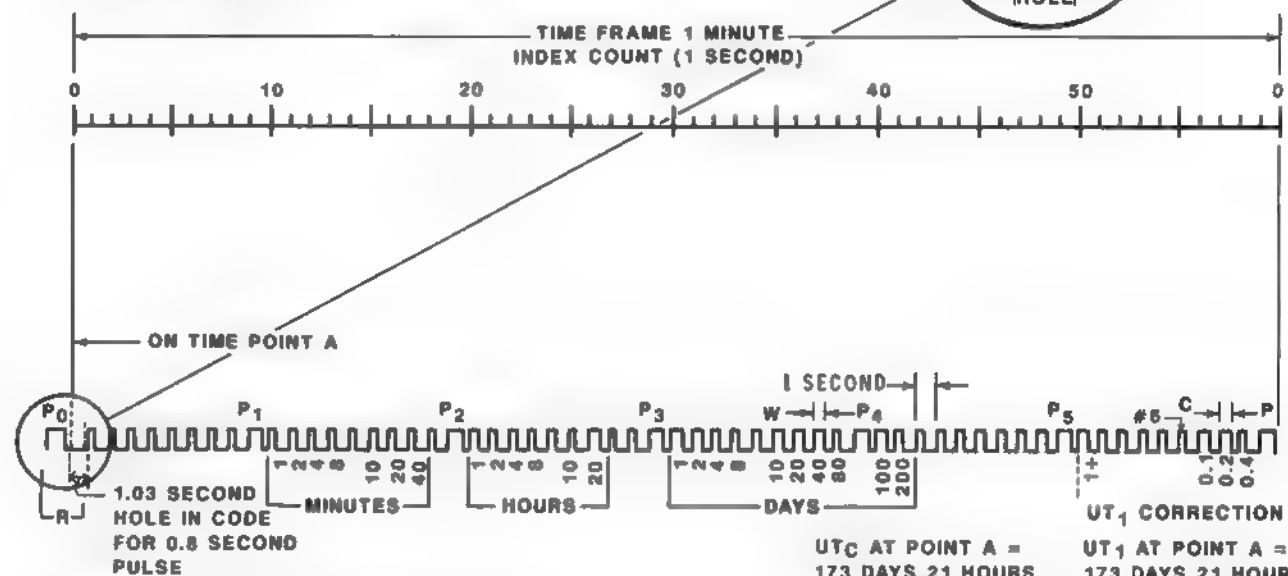
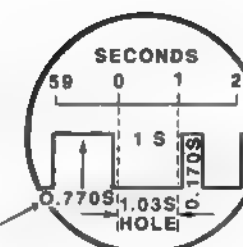


IRIG STANDARD TIME CODE
FORMAT 'H'
(1pps Code)
Reference IRIG Document 104-70

PICTORIAL 7-1

FORMAT H, SIGNAL H001, IS COMPOSED OF THE FOLLOWING:

- 1) 1ppm FRAME REFERENCE MARKER R = (P0 AND 1.03 SECOND 'HOLE')
- 2) BINARY CODED DECIMAL TIME-OF-YEAR CODE WORD (23 DIGITS)
- 3) CONTROL FUNCTIONS (9 DIGITS) USED FOR UT₁ CORRECTIONS, ETC.
- 4) 6ppm POSITION IDENTIFIERS (P₀ THROUGH P₅)
- 5) 1pps INDEX MARKERS



P₀-P₅ POSITION IDENTIFIERS (0.770 SECOND DURATION)
W WEIGHTED CODE DIGIT (0.470 SECOND DURATION)
C WEIGHTED CONTROL ELEMENT (0.470 SECOND DURATION) CONTROL FUNCTION #6 { BINARY ONE DURING 'DAYLIGHT' TIME
BINARY ZERO DURING 'STANDARD' TIME

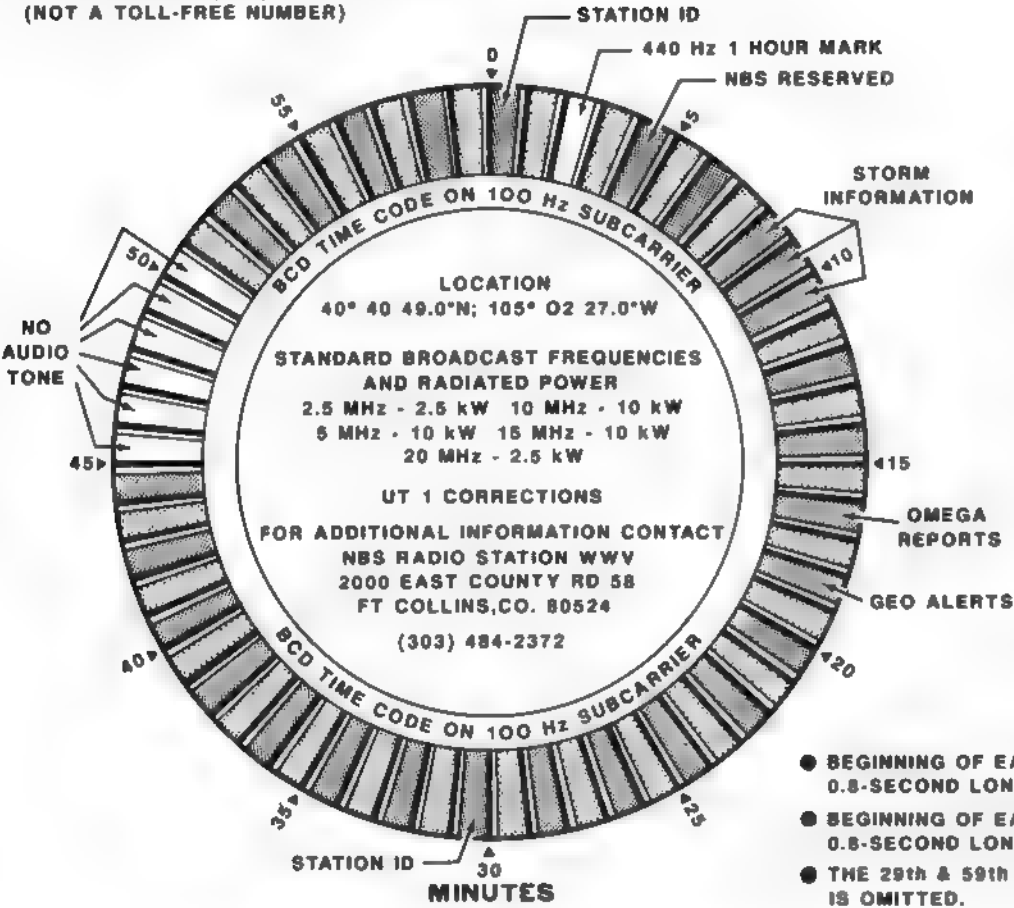
DURATION OF INDEX MARKERS, UNWEIGHTED CODE, AND UNWEIGHTED CONTROL ELEMENTS = 0.170 SECONDS

NOTE BEGINNING OF PULSE IS REPRESENTED BY POSITIVE-GOING EDGE.

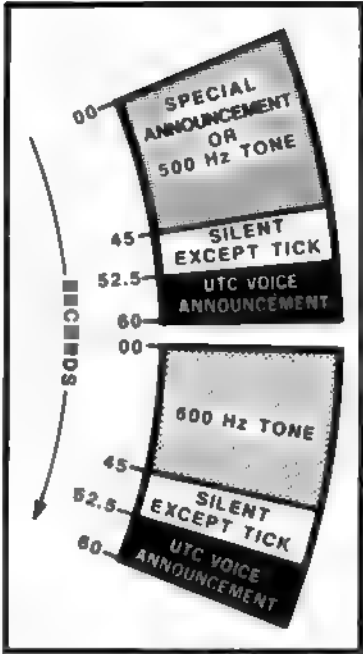
PICTORIAL 7-4

WWV BROADCAST FORMAT

VIA TELEPHONE (303) 499-7111
(NOT A TOLL-FREE NUMBER)

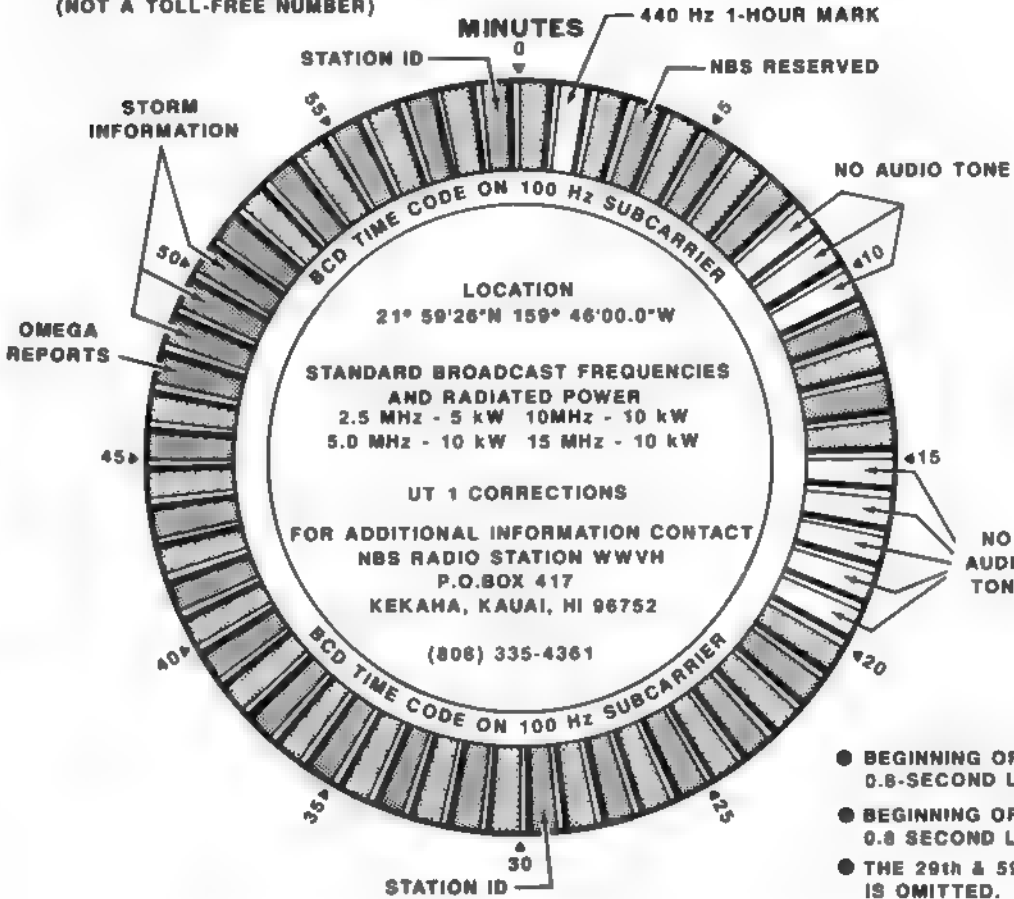


- BEGINNING OF EACH HOUR IS IDENTIFIED BY 0.8-SECOND LONG, 1500-Hz TONE.
- BEGINNING OF EACH MINUTE IS IDENTIFIED BY 0.8-SECOND LONG, 1000-Hz TONE.
- THE 29th & 59th SECOND PULSE OF EACH MINUTE IS OMITTED.

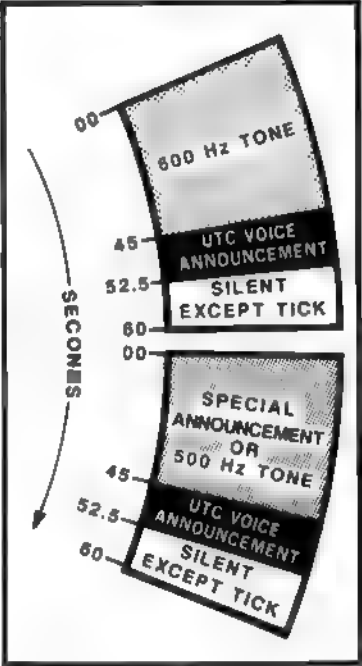


WWVH BROADCAST FORMAT

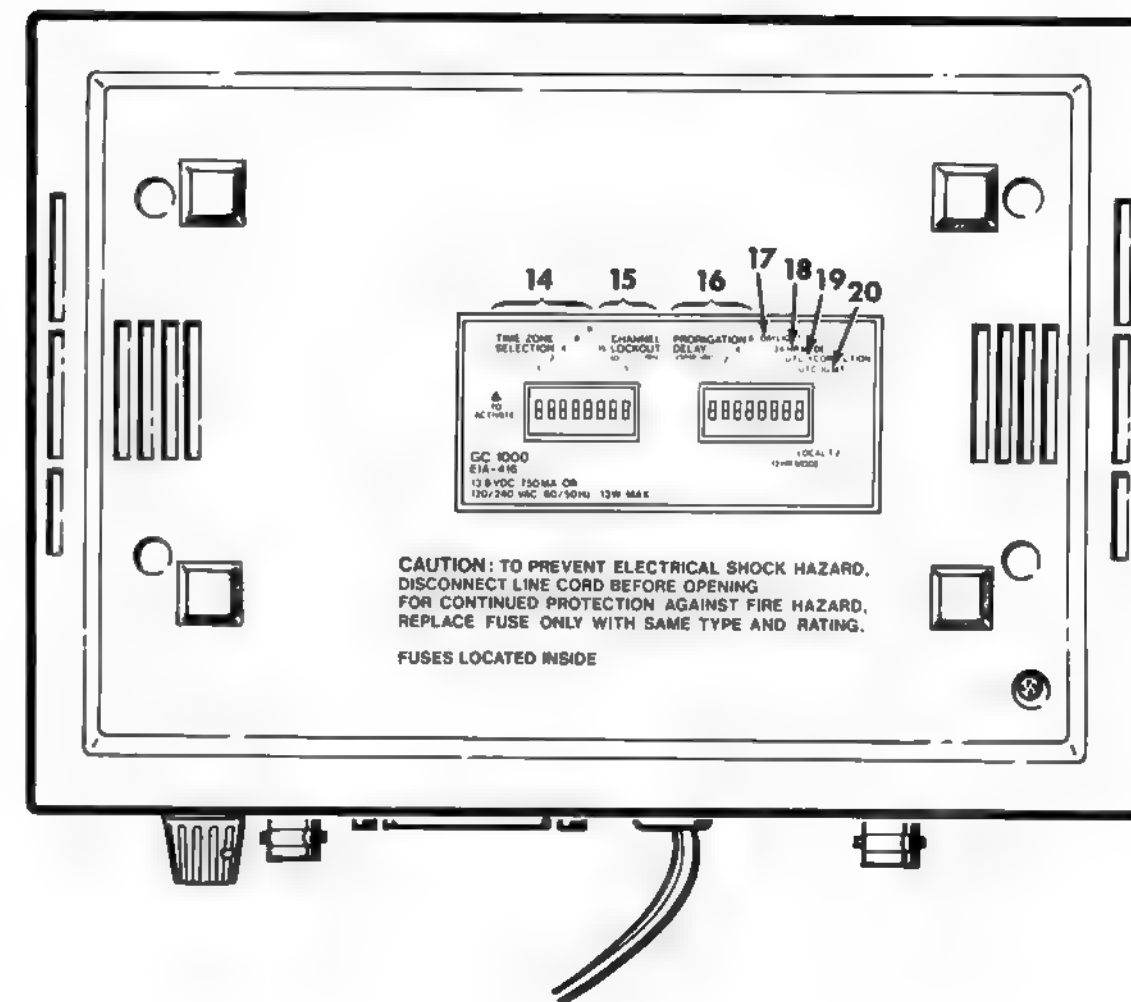
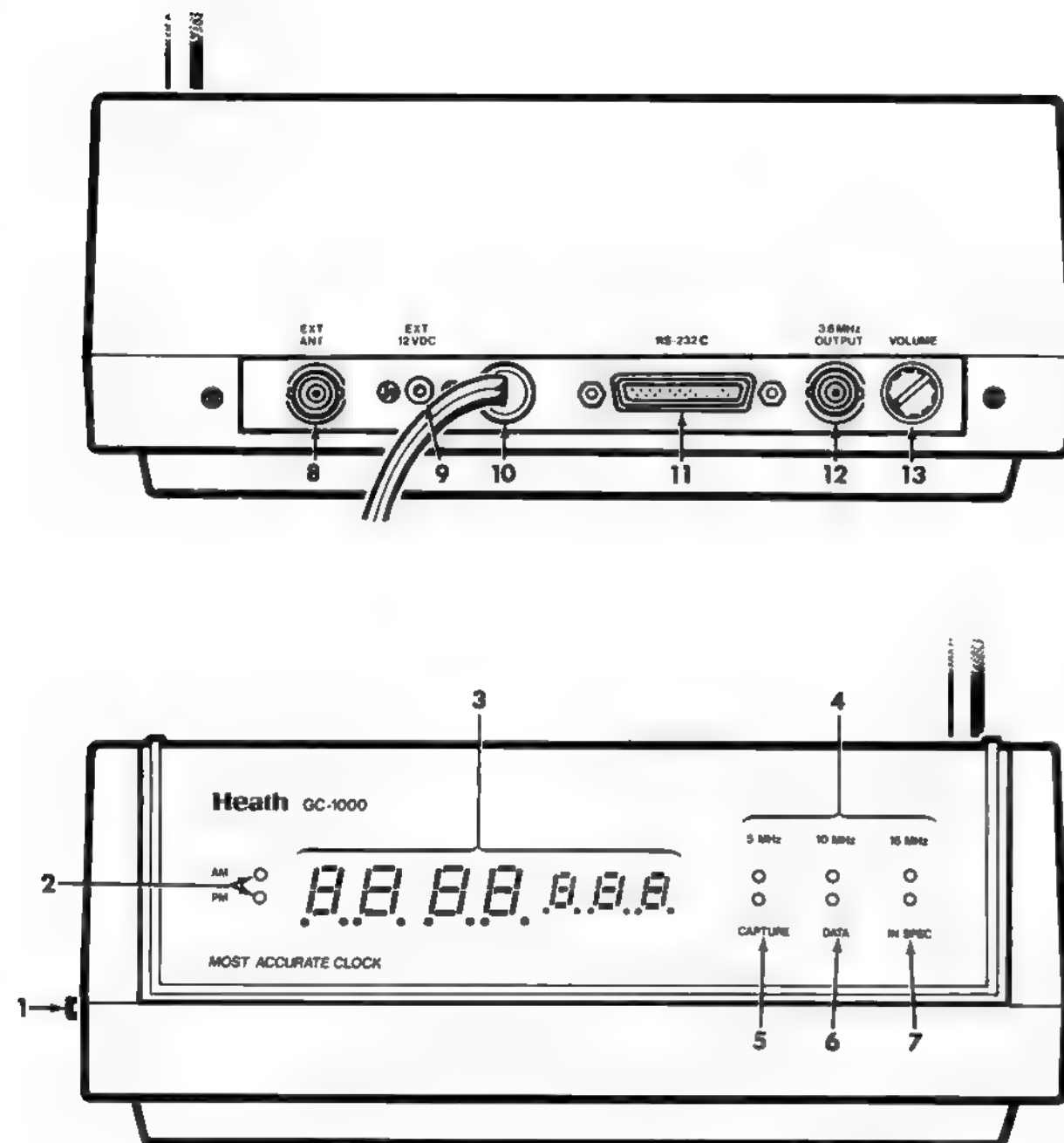
VIA TELEPHONE (808) 335-4363
(NOT A TOLL-FREE NUMBER)



- BEGINNING OF EACH HOUR IS IDENTIFIED BY 0.8-SECOND LONG, 1500 Hz TONE.
- BEGINNING OF EACH MINUTE IS IDENTIFIED BY 0.8 SECOND LONG, 1200 Hz TONE.
- THE 29th & 59th SECOND PULSE OF EACH MINUTE IS OMITTED.

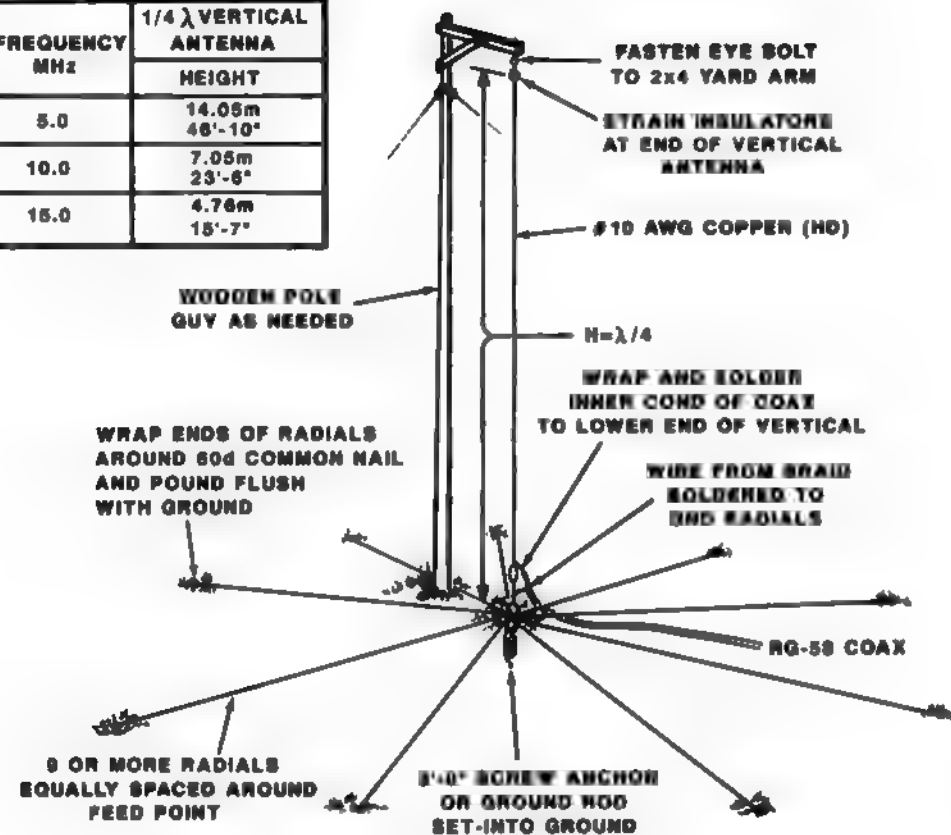


PICTORIAL 7-5



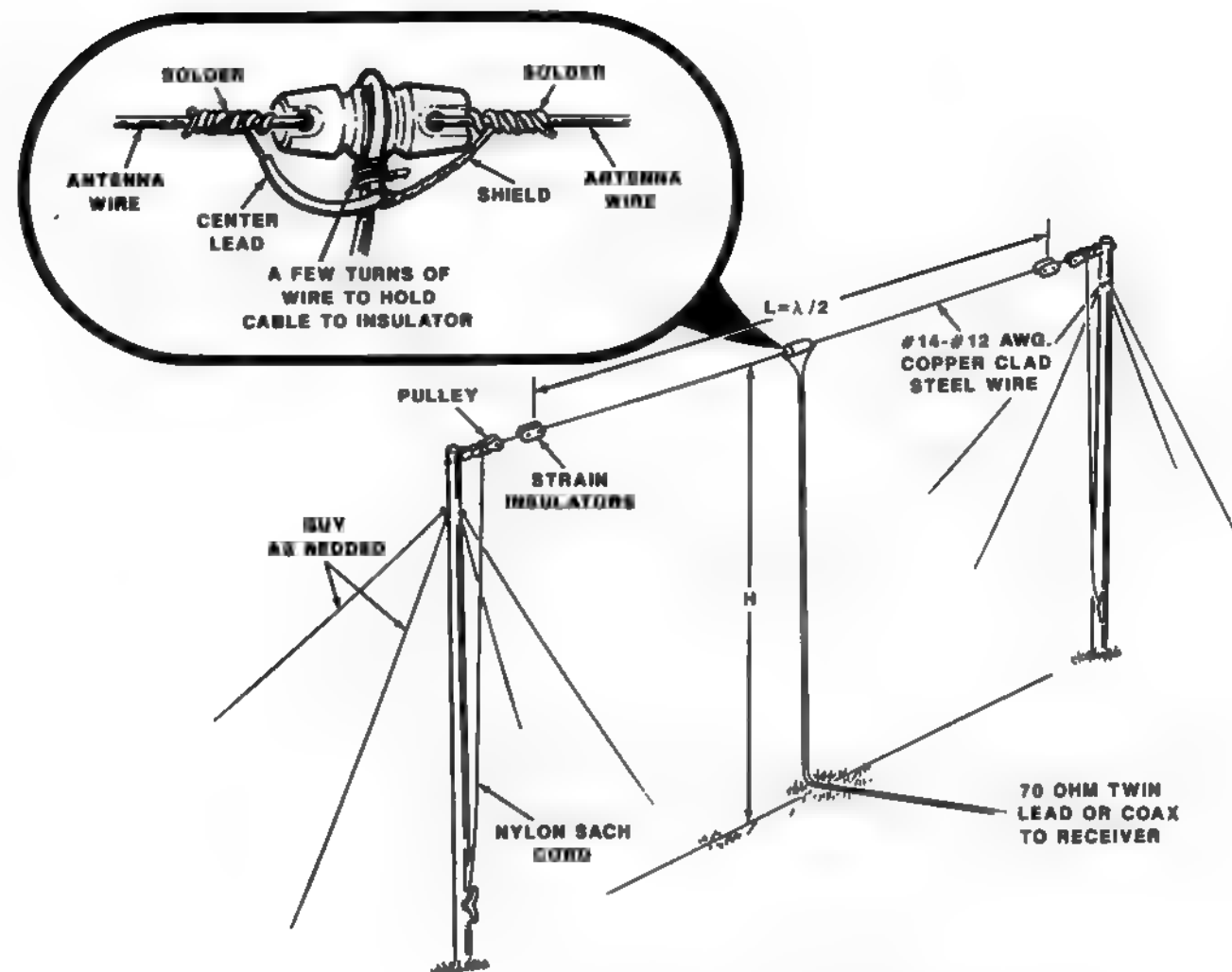
PICTORIAL 8-1

FREQUENCY MHz	1/4 λ VERTICAL ANTENNA
	HEIGHT
5.0	14.05m 46'-10"
10.0	7.05m 23'-6"
15.0	4.76m 15'-7"



QUARTER-WAVELENGTH ANTENNA

PICTORIAL 8-2

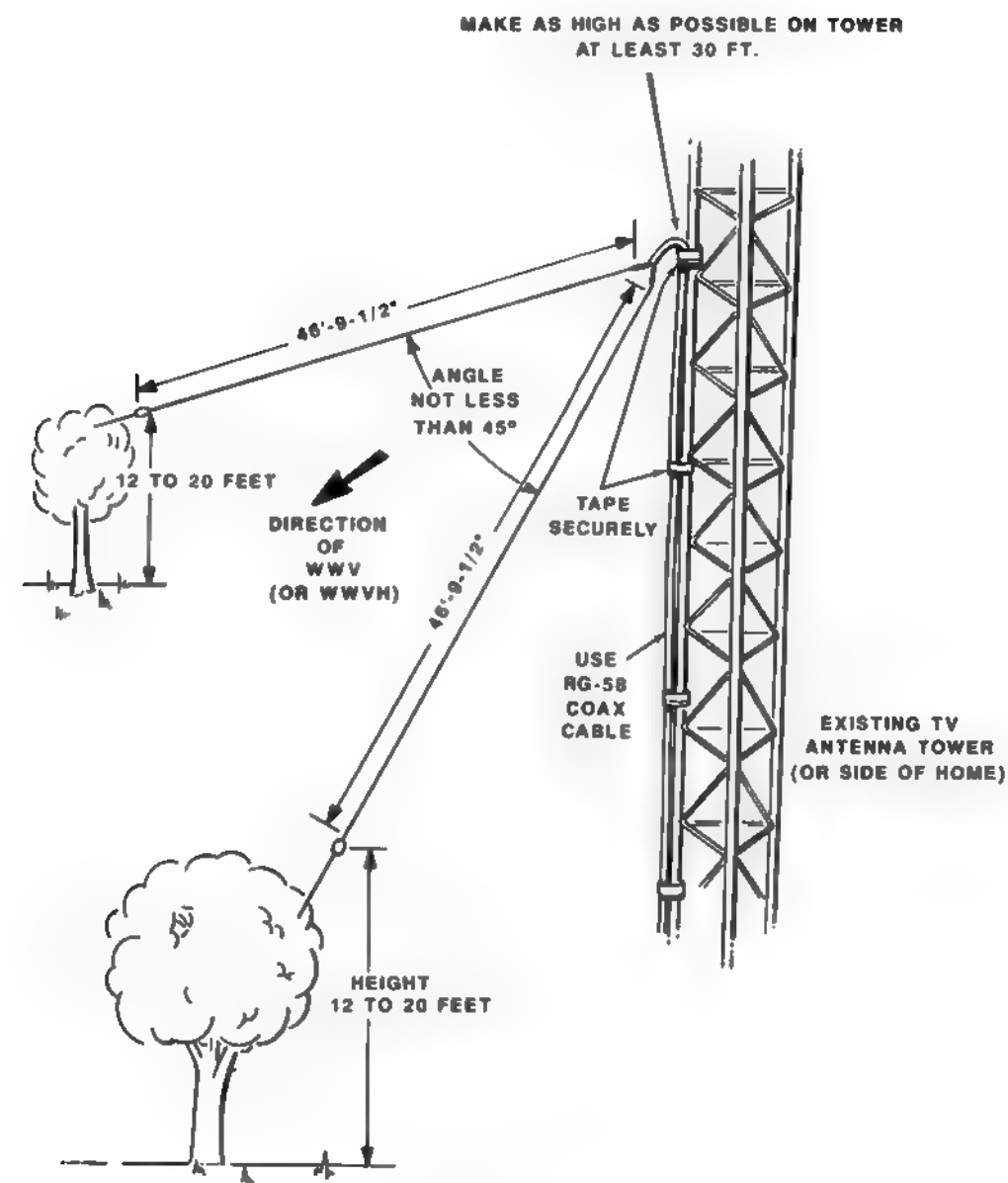


FREQUENCY MHz	1/2 λ HORIZONTAL DIPOLE ANTENNA	
	LENGTH	HEIGHT
5.0	28.07M 93'-7"	9M TO 15M 30' TO 50'
10.0	14.05M 46'-10"	7.5M TO 15M 25' TO 50'
15.0	9.4M 31'-2"	6.1M TO 15M 20' TO 50'

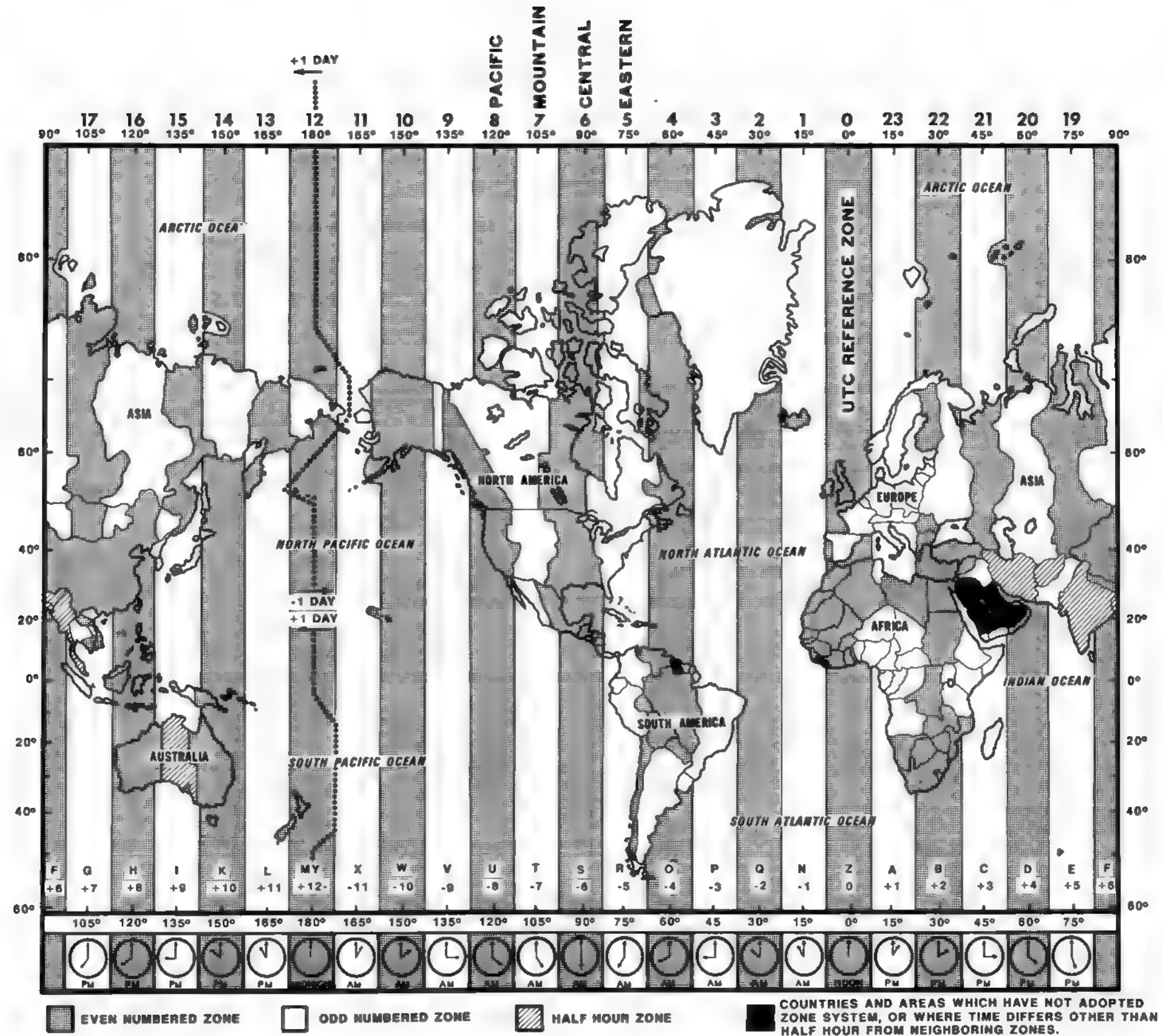
HORIZONTAL HALF-WAVELENGTH ANTENNA

PICTORIAL 8-3

QUICK "INVERTED Vee" ANTENNA

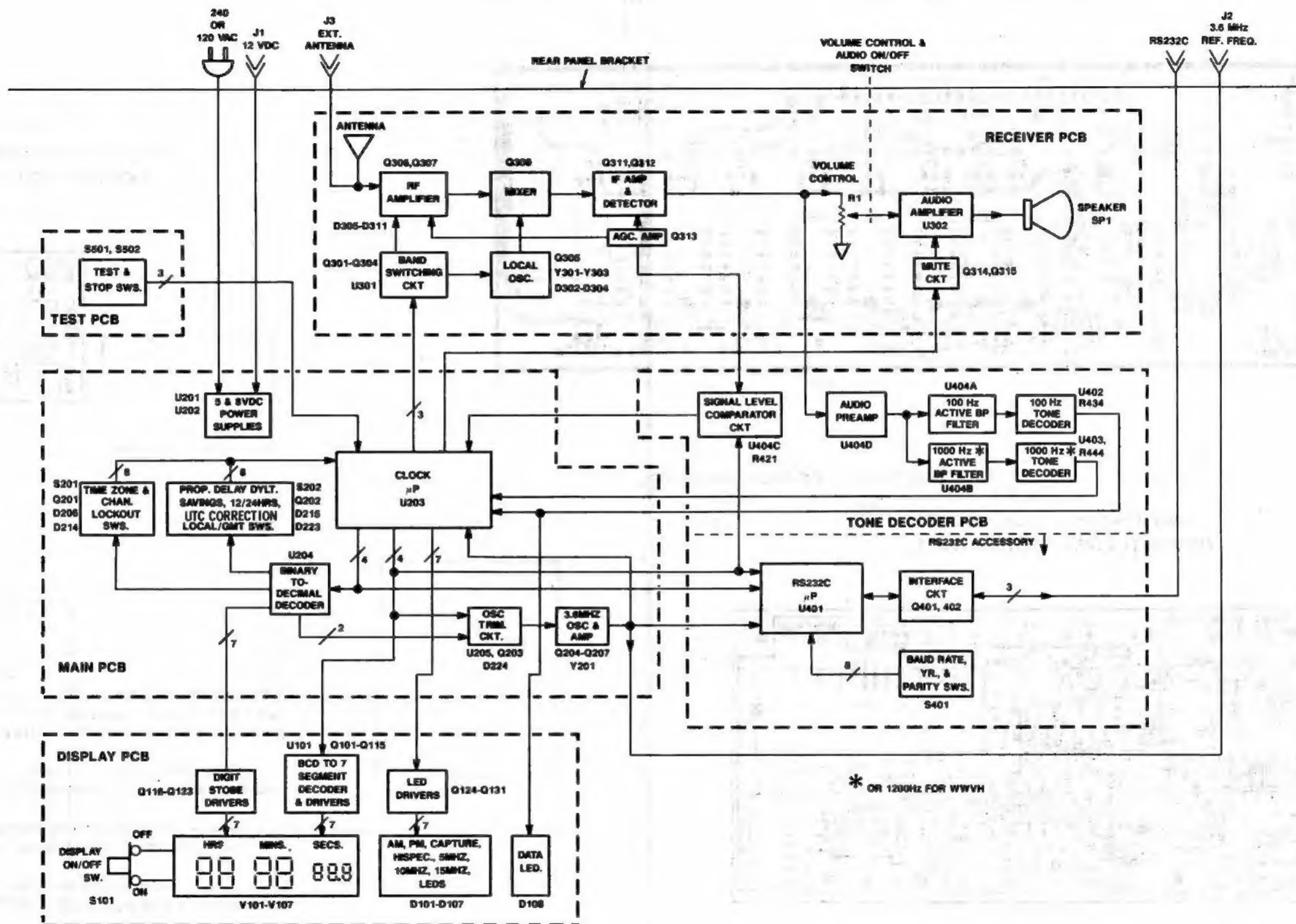


PICTORIAL 8-4



STANDARD TIME ZONES OF THE WORLD REFERENCED TO UTC

PICTORIAL 8-5

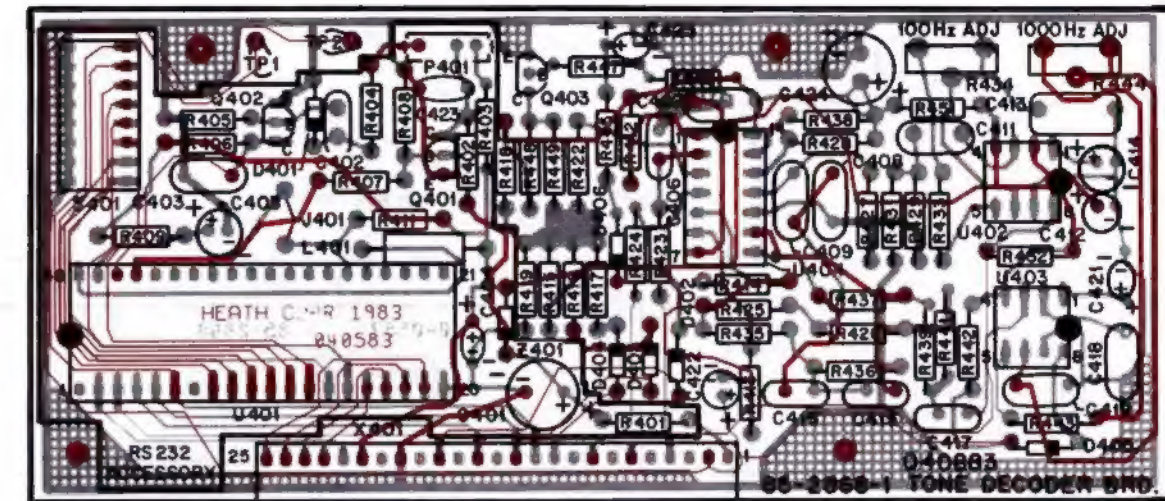


BLOCK DIAGRAM

CIRCUIT BOARD X-RAY VIEWS

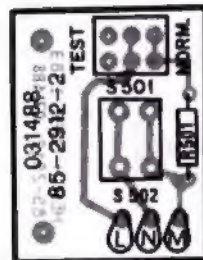
NOTE: To find the PART NUMBER of a component for the purpose of ordering a replacement part:

- Find the circuit component number (U1, C3, etc.) on the "Circuit Board X-Ray View."
- Locate this same number in the "Circuit Component Number" column of the "Replacement Parts List."
- Adjacent to the circuit component number, you will find the PART NUMBER and DESCRIPTION, which must be supplied when you order a replacement part.

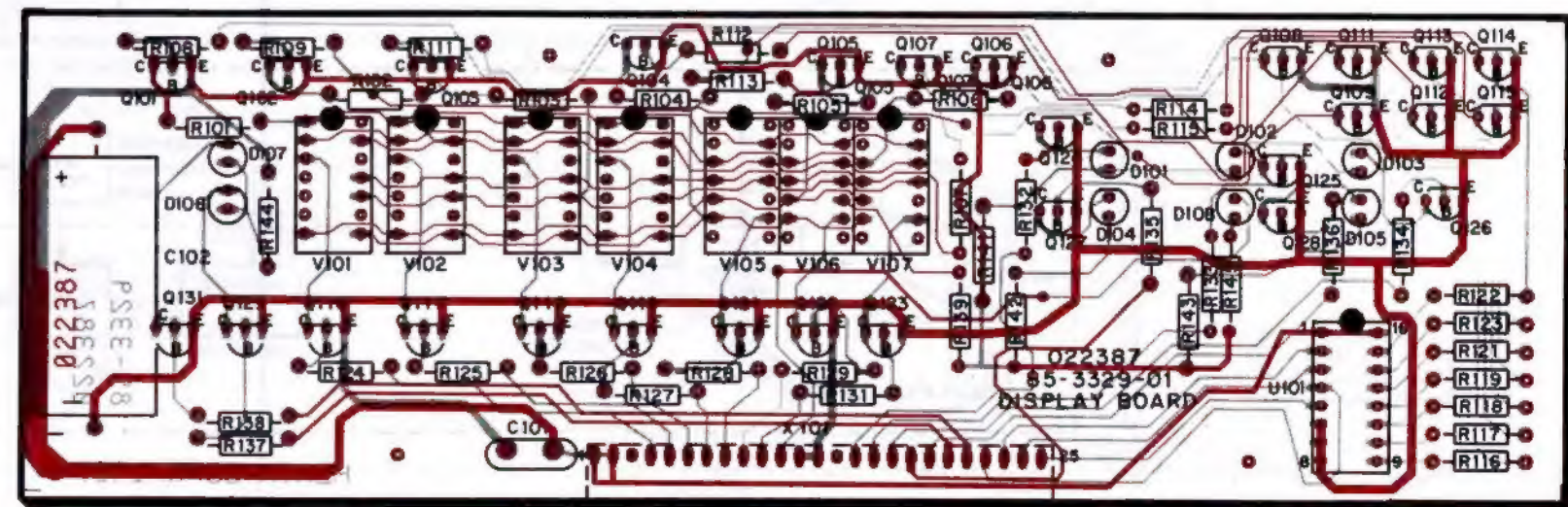


TONE DECODER CIRCUIT BOARD
(Shown from the component side*)

*Foil on component side shown in RED.



TEST CIRCUIT BOARD
(Shown from the component side)



DISPLAY CIRCUIT BOARD
(Shown from the component side*)

